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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,146	11/26/2001	Min-Su Kim	SAM-0274	8596
75	590 12/03/2002			
Steven M. Mills			EXAMINER	
MILLS & ONELLO LLP Suite 605			HU, SHOUXI	JXIANG
Eleven Beacon Boston, MA 0			ART UNIT PAPER NUMBER	
2001011, 11111			2811	
			DATE MAILED: 12/03/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after \$1X\$ (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely If IN Operations of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after \$1X\$ (6) MONTHS from the mailing date of this communication If the period for reply is specified above, the maximum statutory period will apply and will expire \$1X\$ (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 23 September 2002 - 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 11-17 is/are withdrawn from consideration. 5) Is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) 1-10 is/are rejected to. 8) Claim(s) 1-10 is/are rejected to.							
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Application Papers							
<u> </u>							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	,						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)							

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DETAILED ACTION

Election/Restriction

Claims 11-17 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 6.

Accordingly, claims 1-17 are pending in this application; and claims 1-10 remain active in this Office Action.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Cherne et al. ("Cherne"; H12435).

Cherne discloses a semiconductor device (see Figs. 9 and 10; col. 5, lines 18-51; also see Fig. 14 for the inner body/channel region) having an SOI structure, comprising: an insulating layer (12; oxide); an insular silicon region (including 14 and end 84; p-) including an insular body region ("P-BODY", including 14 and end 84 but excluding the top channel region) with a channel formed thereon; a body contact region ("BODY TIE",

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including 72, 74 and 76); a source region (16; n+); a drain region (18; n+); a conductive layer (95; a salicide (self-aligned with the gate)); and a source electrode, wherein the body contact region being in contact with and connected to the source region and the insular body region.

Regarding claim 3, the body contact region in Cherne further includes a region (71) on the other side of the source region.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cherne et al. ("Cherne"; H12435).

The disclosure of Cherne is discussed as applied to claism 1-7 and 9.

Although Cherne does not explicitly disclose that the salicide can be a Ti salicide, or that the device can also be a p-type (p-type Source and drain), one of ordinary skill in the art would readily recognize that the Ti salicide is one of the few most widely used salicides for their good contact properties, and that a p-type SOI device can be readily formed by reversing the polarity of the n-type device (as evidenced in Blake et al. (4,899,202; see col. 3, lines 66 and 67, and col. 6, lines 26-29).

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Therefore, it would have been obvious to one of ordinary skilled in the art at the time the invention was made to make the semiconductor device of Cherne with the salicide being a Ti salicide, or with the device being a p-type, so that a semiconductor device with good contact properties or with desired polarity would be obtained.

Response to Arguments

Applicant's arguments filed on 9/23/02 have been fully considered but they are 4. not persuasive.

Applicant's main arguments include that Cherne fails to teach or suggest that the body contact region is in contact with and connected to the source region and the insular body region. In response, it is noted that, as disclosed in Figs. 9 and 10 and col. 5, lines 18-51 in Cherne, the body contact region in Cherne ("BODY TIE", including 72, 74 and 76) is indeed in contact with and connected to the source region (16; n+) and the insular body region ("P-BODY", including 14 and end 84 but excluding the top channel region).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time 5. policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shouxiang Hu whose telephone number is (703) 306-

5729. The examiner can normally be reached on Monday through Thursday, 7:30 AM

to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 872-9318

for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

SH

November 30, 2002

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